VERKTØY A·S INDUSTRI

Document type: PDS	**Document No. TX-PDS**	
Status: Issued	Product Data Sheet: For Torcup TX Hydraulic Torque Tool	
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Key Features
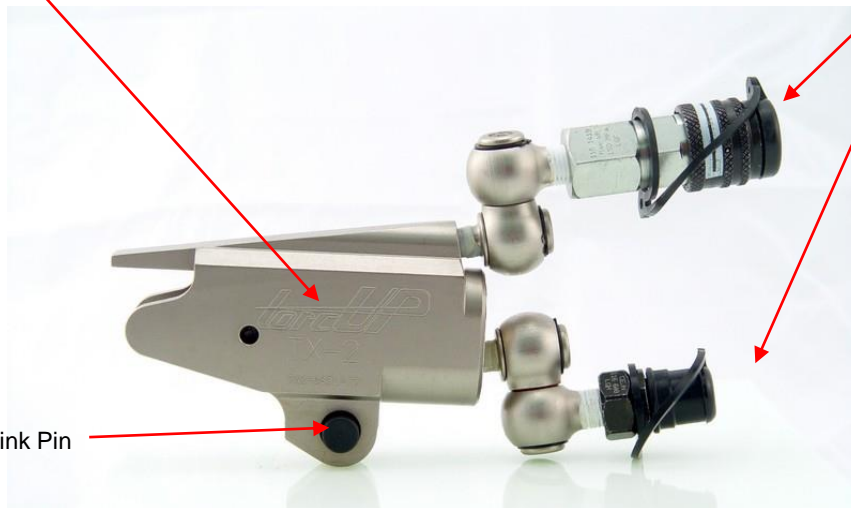
- Torque range from 61 to 64200Nm
- Hex size range from 17 to 155mm
- Easily changeable hex drives.
- Accuracy ±3%
- Low build tool
- In-Line Reaction Pad

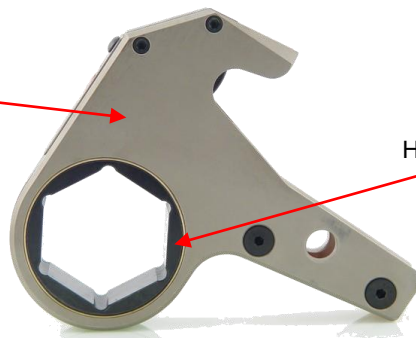## Tool Design

Hydraulic tool unit

Hydraulic couplers with 360° swivels

Link Pin

Changeable Ratchet unit

Hex Ratchet.

Tool and rachet fixed toghether with the link pin. Tool ready to use.

Specifications

PART #	TX-1	TX-2	TX-4	TX-8	TX-16	TX-32	TX-45
Hex Range From	5/8"/ 17mm	3/4"/ 19mm	1"/ 25mm	1 7/8"/ 50mm	2 5/8"/ 65mm	3 1/8"/ 80mm	3 1/8"/ 80mm
Hex Range To	1 5/8"/ 41mm	2 3/8"/ 60mm	3 1/8"/ 80mm	4"/ 105mm	4 5/8"/ 115mm	6 1/8"/ 155mm	6 1/8"/ 155mm
Minimum Torque(Ft/lbs)	45	192	395	830	1560	3220	4850
Maximum Torque (Ft/lbs)	560	1928	3950	8630	16600	35650	47380
Minimum Torque (Nm)	61	260	535	1125	2155	4365	6575
Maximum Torque (Nm)	759	2614	5355	11699	22503	48327	64228
Output Accuracy	+-3%	+-3%	+-3%	+-3%	+-3%	+-3%	+-3%
Repeatability	100%	100%	100%	100%	100%	100%	100%
Duty Cycle	100%	100%	100%	100%	100%	100%	100%
Cylinder Weight (lbs)	1	3.50	6.00	11.70	16.00	26.00	29.00
Cylinder Weight (Kg)	0.45	1.50	2.70	5.00	7.30	11.50	13.00
Link Weight From (lbs)	1	2.40	5.40	11.90	21.00	29.00	29.00
Link Weight To (lbs)	1	3.50	7.60	14.50	28.00	39.50	39.50
Link Weight From (Kg)	0.45	1.00	2.40	5.50	9.50	13.00	13.00
Link Weight To (Kg)	0.45	1.50	3.40	6.50	13.00	17.90	17.90
Length	4.37/ 111.0	6.45/ 163.8	7.87/ 199.9	10.20/ 259.1	12.93/ 328.4	15.8/ 401.3	16.75/ 425.5
Height	3.25/ 82.6	4.00/ 101.6	5.60/ 142.2	7.00/ 177.8	7.58/ 192.5	9.50/ 241.3	10.28/ 261.1
Width	0.78/ 19.8	1.25/ 31.8	1.63/ 41.4	2.05/ 52.1	2.50/ 63.5	3.24/ 82.3	4.88/ 124.0
Radius	0.23/ 5.8	0.36/ 9.1	0.46/ 11.7	0.54/ 13.7	0.65/ 16.5	0.93/ 23.6	0.93/ 23.6

Features

Patented "Peanut-Shaped" Piston
This feature allows the cylinder and ratchet link to be the same width. The oval piston design provides more force area than the two-piston design found in competitor tools, and is a unique Torcup feature. It is the only tool on the Market with an oval piston design. The single piston design also makes the tool much more cost-effective, easier to maintain and more robust. Friction reducing sliders prevent wear on the piston. 3 moving parts principle from the original tool designs is upheld. Hence, the tool is the most durable, but also the easiest tool on the market to maintain and service.

Dual Independent Swivels
360° x 360° swivels allow for individual
movement of hoses. Steel construction adds durability and toughness using Cejn Certified Quick Couplers. The cost of replacement swivels is a fraction of the competitors.

Quick Connect Couplers
Each tool is fitted with quick connect, no-drip, threadless safety couplers, with 4:1 safety ratio.

Hex Link Cassettes
Steel alignment pins connect lower reaction area for added strength. The hex link cassette is extremely maintenance friendly as an operator can de/ and re-assemble the cassette with the use of 3 sizes of allen keys within 8 minutes.

Cylinder and Link Material
Both cylinder and link are manufactured from 4340 Aircraft Quality high strength steel alloy.

Nose Radius
Tight nose radius allows this tool to fit in applications where clearance constraints make other tools too bulky.
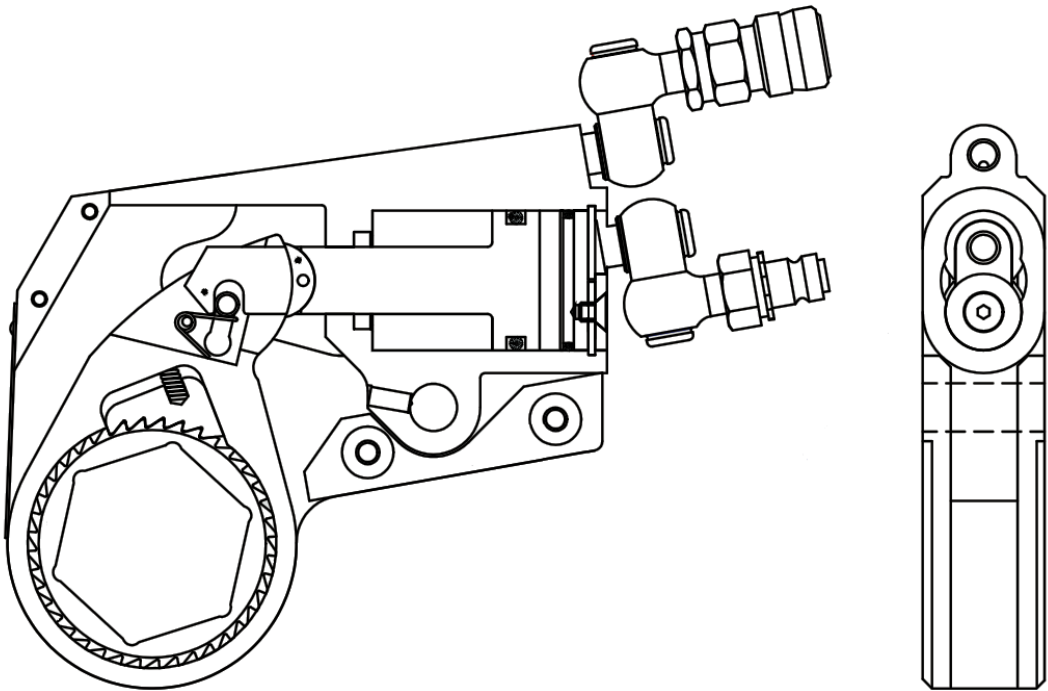
In-Line Reaction Pad
This design ensures torsion-free
reaction every time.

Link Pin
One pin for link to cylinder engagement - no tool required for swapping ratchet links. Link pins with wire lock is supplied for Offshore environment as standard.

Internal View

Accessories

Custom Spanner Housing

Hydraulic Unit

Handle

Ratchet Unit

Open Spanner Wrench

Closed Spanner Wrench

Hex Reducer

Socket Adaptors

Short Reaction Plate

Long Reaction Arm